

# SCORE Search Results Details for Application 09855320 and Search Result 20080428\_144555\_us-09-855-320-2.ra1.

<a href="#">Score Home Page</a>	<a href="#">Retrieve Application List</a>	<a href="#">SCORE System Overview</a>	<a href="#">SCORE FAQ</a>	<a href="#">Comments / Suggestions</a>
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This page gives you Search Results detail for the Application 09855320 and Search Result 20080428\_144555\_us-09-855-320-2.ra1.

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GenCore version 6.2.1  
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OM protein - protein search, using sw model

Run on: April 28, 2008, 16:14:41 ; Search time 62 Seconds  
(without alignments)  
1020.025 Million cell updates/sec

Title: US-09-855-320-2  
Perfect score: 1869  
Sequence: 1 MNNAGHGPTRRRLRGLGLVLGAG.....RYPHLP RSQVYEDLEGWFQA 342

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1143754 seqs, 186252778 residues

Total number of hits satisfying chosen parameters: 1143754

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued\_Patents\_AA:\*  
1: /ABSS/Data/CRF/ptodata/1/iaa/5\_COMB.pep:\*  
2: /ABSS/Data/CRF/ptodata/1/iaa/6\_COMB.pep:\*  
3: /ABSS/Data/CRF/ptodata/1/iaa/7\_COMB.pep:\*  
4: /ABSS/Data/CRF/ptodata/1/iaa/H\_COMB.pep:\*  
5: /ABSS/Data/CRF/ptodata/1/iaa/PCTUS\_COMB.pep:\*  
6: /ABSS/Data/CRF/ptodata/1/iaa/RE\_COMB.pep:\*  
7: /ABSS/Data/CRF/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

%	
Result	Query

No.	Score	Match	Length	DB	ID	Description
1	1869	100.0	342	3	US-08-361-306A-2	Sequence 2, Appli
2	1507	80.6	342	1	US-08-483-151-2	Sequence 2, Appli
3	1507	80.6	393	2	US-09-784-077-2	Sequence 2, Appli
4	820.5	43.9	341	3	US-10-764-212-69	Sequence 69, Appl
5	814	43.6	336	3	US-10-764-212-67	Sequence 67, Appl
6	776	41.5	393	2	US-09-390-131-8	Sequence 8, Appli
7	770.5	41.2	356	2	US-09-092-315-12	Sequence 12, Appl
8	770.5	41.2	356	3	US-10-392-098A-12	Sequence 12, Appl
9	770.5	41.2	356	3	US-10-120-319A-12	Sequence 12, Appl
10	750	40.1	355	2	US-09-733-524A-12	Sequence 12, Appl
11	750	40.1	355	2	US-10-189-977A-12	Sequence 12, Appl
12	743	39.8	433	2	US-09-092-315-11	Sequence 11, Appl
13	743	39.8	433	2	US-09-733-524A-11	Sequence 11, Appl
14	743	39.8	433	2	US-10-189-977A-11	Sequence 11, Appl
15	743	39.8	433	3	US-10-392-098A-11	Sequence 11, Appl
16	743	39.8	433	3	US-10-120-319A-11	Sequence 11, Appl
17	736	39.4	291	3	US-10-764-212-65	Sequence 65, Appl
18	731	39.1	405	1	US-07-914-281-8	Sequence 8, Appli
19	731	39.1	405	1	US-08-393-246-8	Sequence 8, Appli
20	731	39.1	405	1	US-08-525-058A-8	Sequence 8, Appli
21	731	39.1	405	1	US-08-696-731-8	Sequence 8, Appli
22	731	39.1	405	2	US-09-042-531-8	Sequence 8, Appli
23	724.5	38.8	502	2	US-10-080-960-16	Sequence 16, Appl
24	724.5	38.8	502	3	US-10-184-648-23	Sequence 23, Appl
25	712	38.1	405	1	US-08-483-151-4	Sequence 4, Appli
26	709.5	38.0	374	1	US-07-914-281-11	Sequence 11, Appl
27	709.5	38.0	374	1	US-08-393-246-11	Sequence 11, Appl
28	709.5	38.0	374	1	US-08-525-058A-11	Sequence 11, Appl
29	709.5	38.0	374	1	US-08-696-731-11	Sequence 11, Appl
30	709.5	38.0	374	2	US-09-042-531-11	Sequence 11, Appl
31	701	37.5	365	2	US-09-092-315-9	Sequence 9, Appli
32	701	37.5	365	2	US-09-390-131-7	Sequence 7, Appli
33	701	37.5	365	3	US-10-392-098A-9	Sequence 9, Appli
34	701	37.5	365	3	US-10-120-319A-9	Sequence 9, Appli
35	694.5	37.2	292	3	US-10-184-648-22	Sequence 22, Appl
36	694	37.1	359	1	US-07-914-281-14	Sequence 14, Appl
37	694	37.1	359	1	US-08-393-246-14	Sequence 14, Appl
38	694	37.1	359	1	US-08-525-058A-14	Sequence 14, Appl
39	694	37.1	359	1	US-08-696-731-14	Sequence 14, Appl
40	694	37.1	359	2	US-09-042-531-14	Sequence 14, Appl
41	694	37.1	359	2	US-09-092-315-10	Sequence 10, Appl
42	694	37.1	359	2	US-09-733-524A-10	Sequence 10, Appl
43	694	37.1	359	2	US-10-189-977A-10	Sequence 10, Appl
44	694	37.1	359	3	US-10-392-098A-10	Sequence 10, Appl
45	694	37.1	359	3	US-10-120-319A-10	Sequence 10, Appl

## ALIGNMENTS

## RESULT 1

US-08-361-306A-2

; Sequence 2, Application US/08361306A

; Patent No. 7094530

; GENERAL INFORMATION:

; APPLICANT: SASAKI, KATSUTOSHI

; APPLICANT: MIURA, KAZUMI

; APPLICANT: HANAI, NOBUO

; APPLICANT: NISHI, TATSUNARI



```

Db      241 FWRNALVAGTVPVVLGPPRATYEAFVPADAFVHVDDFGSARELAAFLTGMNESRYQRFFA 300
Qy      301 WRDLRLVRLFTDWRERFCAICDRYPHLPRSQVYEDLEGWFQA 342
        ||||||||||||||||||||||||||||||||||||||||
Db      301 WRDLRLVRLFTDWRERFCAICDRYPHLPRSQVYEDLEGWFQA 342

```

## RESULT 2

US-08-483-151-2

; Sequence 2, Application US/08483151

; Patent No. 5858752

; GENERAL INFORMATION:

; APPLICANT: Seed, Brian

; APPLICANT: Holgersson, Jan

; TITLE OF INVENTION: FUCOSYLTRANSFERASE GENES AND USES THEREOF

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish &amp; Richardson P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/483,151

; FILING DATE: 07-JUN-1995

; CLASSIFICATION: 530

; ATTORNEY/AGENT INFORMATION:

; NAME: Lech, Karen F.

; REGISTRATION NUMBER: 35,238

; REFERENCE/DOCKET NUMBER: 00786/278001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617/542-5070

; TELEFAX: 617/542-8906

; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 342 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-483-151-2

Query Match 80.6%; Score 1507; DB 1; Length 342;

Best Local Similarity 80.1%; Pred. No. 4.7e-152;

Matches 274; Conservative 22; Mismatches 46; Indels 0; Gaps 0;

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Qy      1 MNNAGHGPTRLRLGLVLAGVALLAALWLLWLLGSAPRGTPAPQPTITILVNHWPFTDQP 60
        || | : ||||| | || | : | || || | || | : ||| : ||||| : |
Db      1 MNCIGYHPTRLRLAWGGLAGGATFMVINFFWLWGSAPGSAPVPQSTLTILVNHWPFTNRP 60

Qy      61 PELPSDTCTRYGIARCHLSANRSLASADAVVFHHRELQTRRSHLPLAQRPRGQPVWVAS 120
        ||| | ||||| : | ||||||||||||||||||||| : || | || |||||
Db      61 PELPGDTCTRYGMASCRSLSANRSLASADAVVFHHRELQTRQSLPLDQRPHGQPVWVAS 120

Qy      121 MESPSHTHGLSHLRGIFNWVLSYRRSDIFVPYGRLEPHWGPSPPLPAKSRAVAVVSNF 180

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Db      121  |||||:||||  |||||:|||||:|||||:|||||  |:  |||||:||||:||||
Qy      181  QERQLRARLYRQLAPHLRVDVFGGRANGRLPCASCLVPTVAQYRFYLSFENSQHRDYITEK 240
Db      181  |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||
Db      181  QERQQRAKLYRQLAPHLQVDVFGGRASGRPLCANCLLPTLARYRFYLAFENSQHRDYITEK 240
Qy      241  FWRNALVAGTVPVVLGPPRATYEAFPADAFVHVDDFGSARELAFLTMNESRYQRFFA 300
Db      241  |||||  ||  |||  |||||:|||||  |||||:|||||  |||||  ||  |||||:|||||
Db      241  FWRNALAAGAVPVVALGPPRATYEAFPVPPDAFVHVDDFSSARELAVFLVMNESRYRGFFA 300
Qy      301  WRDRLRVRLFTDWRERFCAICDRYPHLPRSQVYEDLEGWFQA 342
Db      301  |||||:||||  |||||  ||  |||:|||||:||||  |||||
Db      301  WRDRLRVRLGWDWRERFCTICARYPYLPRSQVYEDLESWFQA 342

```

## RESULT 3

US-09-784-077-2

; Sequence 2, Application US/09784077

; Patent No. 6693183

; GENERAL INFORMATION:

; APPLICANT: NATSUKA, SHUNJI

; GERSTEN, KEVIN M.

; LOWE, JOHN B.

; TITLE OF INVENTION: MURINE ALPHA (1,3) FUCOSYLTRANSFERASE

; FUC-TVII, DNA ENCODING THE SAME, METHOD FOR PREPARING THE

; SAME, ANTIBODIES RECOGNIZING THE SAME, IMMUNOASSAYS FOR

; DETECTING THE SAME, PLASMIDS CONTAINING SUCH DNA

; NUMBER OF SEQUENCES: 4

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER &amp; NEUSTADT,

; P.C.

; STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400

; CITY: ARLINGTON

; STATE: VA

; COUNTRY: USA

; ZIP: 22202

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/784,077

; FILING DATE: 16-Feb-2001

; CLASSIFICATION: &lt;Unknown&gt;

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/613,098

; FILING DATE: 08-MAR-1996

; ATTORNEY/AGENT INFORMATION:

; NAME: LAVALLEYE, JEAN-PAUL

; REGISTRATION NUMBER: 31,451

; REFERENCE/DOCKET NUMBER: 2363-114-55

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 703-413-3000

; TELEFAX: 703-413-2220

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 393 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

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;          TOPOLOGY: linear
;          MOLECULE TYPE: protein
;          SEQUENCE DESCRIPTION: SEQ ID NO: 2:
US-09-784-077-2

```

```

Query Match      80.6%; Score 1507; DB 2; Length 393;
Best Local Similarity 80.1%; Pred. No. 5.7e-152;
Matches 274; Conservative 22; Mismatches 46; Indels 0; Gaps 0;

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Qy      1  MNVAGHGPTRLRLGLVLAGVALLAALWLLWLLGSAPRGTPAPQPTITILVWHWPFIDQP 60
      || 1: ||||| | || | : | ||| | || 1:||||:||||:|
Db      52  MNCIGVHPTRLRLRAWGGLAGGATFMVWFWLWGSAPGSAVPQSTLTILVWHWPFITNR 111

Qy      61  PELPSDTCTRYGIARCHLSANRSLASADAVVFHRELQTRRSHLPLAQRPRGQPVWVAS 120
      ||| |||||:| | ||||| ||||| |||||:| ||| ||| |||||
Db      112  PELPGDTCTRYGMASRLSANRSLASADAVVFHRELQTRQSLPLDQRPHGQPVWVAS 171

Qy      121  MESPSNTHGLSHLRGIFNWVLSYRRSDIFVPYGRLEPHWGPSPLPAKSRAAWVVSNF 180
      |||||:|||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      172  MESPSNTHGLHRFRGIFNWVLSYRRSDIFVPYGRLEPLSGPTSPPLAKSRMAAWVISNF 231

Qy      181  QERQLRARLYRQLAPHLRVDVFGGRANGRLPCASCLVPTVAQYRFYLSFENSQHRDYITEK 240
      ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db      232  QERQQRAKLYRQLAPHLQVDVFGGRANGRLPCANCLLPTLARYRFYLAFFENSQHRDYITEK 291

Qy      241  FWRNALVAGTVPVVLGPPRATYEAFFVPADAFVHVDDFGSARELAALFTGMNESRYQRFFA 300
      ||||| ||| ||| ||||| ||||| ||||| ||||| ||||| |||||
Db      292  FWRNALAAGAVPVALGPPRATYEAFFVPPDAFVHVDDFGSARELAVALVSMNESRYRGFFA 351

Qy      301  WRDRLRVRLFTDWRERFCAICDRYPHLPRSQVYEDLEGWFQA 342
      ||||| ||||| || |||:||||| ||||| |||||
Db      352  WRDRLRVRLGDRERFCTICARYPYLPRSQVYEDLESWFQA 393

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```

RESULT 4
US-10-764-212-69
; Sequence 69, Application US/10764212
; Patent No. 7326770
; GENERAL INFORMATION:
; APPLICANT: Simala-Grant, Joanne
; APPLICANT: Taylor, Diane
; APPLICANT: Johnson, Karl F.
; APPLICANT: Bezila, Daniel James
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: Governors of the University of Alberta
; TITLE OF INVENTION: H. Pylori Fucosyltransferases
; FILE REFERENCE: 019957-019400US
; CURRENT APPLICATION NUMBER: US/10/764,212
; CURRENT FILING DATE: 2004-01-22
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 69
; LENGTH: 341
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial
; OTHER INFORMATION: Sequence:glycosyltransferase family 10
; OTHER INFORMATION: fucosyltransferase consensus sequence pfam00852
; OTHER INFORMATION: positions 11-351
US-10-764-212-69

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Query Match 43.9%; Score 820.5; DB 3; Length 341;  
Best Local Similarity 52.0%; Pred. No. 1e-78;  
Matches 178; Conservative 39; Mismatches 102; Indels 23; Gaps 10;

[illegible]

### RESULT 5

```

US-10-764-212-67
; Sequence 67, Application US/10764212
; Patent No. 7326770
; GENERAL INFORMATION:
; APPLICANT: Simala-Grant, Joanne
; APPLICANT: Taylor, Diane
; APPLICANT: Johnson, Karl F.
; APPLICANT: Bezila, Daniel James
; APPLICANT: Neose Technologies, Inc.
; APPLICANT: Governors of the University of Alberta
; TITLE OF INVENTION: H. Pylori Fucosyltransferases
; FILE REFERENCE: 019957-019400US
; CURRENT APPLICATION NUMBER: US/10/764,212
; CURRENT FILING DATE: 2004-01-22
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 67
; LENGTH: 336
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial
; OTHER INFORMATION: Sequence:glycosyltransferase family 10
; OTHER INFORMATION: fucosyltransferase consensus sequence pfam00852
; OTHER INFORMATION: positions 16-351
US-10-764-212-67

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Query Match 43.6%; Score 814; DB 3; Length 336;  
Best Local Similarity 54.3%; Pred. No. 4.9e-78;  
Matches 171; Conservative 36; Mismatches 94; Indels 14; Gaps 8;

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Qy      39  GTPAPQPTITILVHHWPFDTQPPELPSDICTRYGIARCHLSANRSLASADAVVFHREL 98
Db      24  GSQAPQPPLRLLLWTFPFGNPLALSDCPLSYQNTARCLTANRSPLESADAVLFHHRDL 83

Qy      99  QTRRSHPLAQRPRGQPWWASMESPSHTHGLSHLR-GIFNWVLSYRRSDIFVPGYLE 157
Db      84  SKGFPDLPSPRPFGQPWWASMESPSNS-GLNDLRDGYFNWTLSTRADSAFHPYGYLE 142

Qy     158  PHWGP---SPPLPAKSRVAWVVSNFQERQLRARLYRQLAPHLRVDVFGGR-ANGRPLCAS 213
Db     143  PRLSQVVPNAPLISAKRKGAAWVVSNCNTRSKRERFYQLNKLHLQVDVGGRVANPLPLKVG 202

Qy     214  CLVPTVAQYRFYLSFENSQHRDYITEKFWRNALVAGTVPVVLGPPRATYEAFVPADAFVH 273
Db     203  CLVETLSQYKFYLAFENSQHYDYVTEKLWKNALQAGTIPVVLG-PRAVYEDFVPPKSFH 261

Qy     274  VDDFGSARELAFLTGM--NESRYQRFFAWRDLRLVRLFT---DWRERFCAICDRYPHL 327
Db     262  VDDFKSPKELADYLLYLDNPTAYSEYFEWRYDLRVLFSWDALRYDEGFCRCVRLQNA 321

Qy     328  P-RSQYVEDLEGWFQ 341
Db     322  PDRIKTYPNIAKWFQ 336

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## RESULT 6

US-09-390-131-8

; Sequence 8, Application US/09390131

; Patent No. 6461835

; GENERAL INFORMATION:

; APPLICANT: Abbott Laboratories

; APPLICANT: Cummings, Richard D.

; APPLICANT: Nyame, A. Kwame

; APPLICANT: DeBose-Boyd, Russell A.

; TITLE OF INVENTION: FUCOSYLTRANSFERASES, POLYNUCLEOTIDES

; TITLE OF INVENTION: ENCODING FUCOSYLTRANSFERASES, AND TRANSGENIC MAMMAL

; TITLE OF INVENTION: INCORPORATING SAME

; FILE REFERENCE: 6679.US.01

; CURRENT APPLICATION NUMBER: US/09/390,131

; CURRENT FILING DATE: 1999-09-03

; NUMBER OF SEQ ID NOS: 22

; SOFTWARE: FastSEQ for Windows Version 4.0

; SEQ ID NO 8

; LENGTH: 393

; TYPE: PRT

; ORGANISM: Caenorhabditis elegans

US-09-390-131-8

Query Match 41.5%; Score 776; DB 2; Length 393;

Best Local Similarity 48.7%; Pred. No. 7.1e-74;

Matches 169; Conservative 45; Mismatches 107; Indels 26; Gaps 12;

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Qy      10  RRLRGLGVLGVALAALWL----LWLLGSAPRGTPAPQPTITILVHHWPFDTQPPELPS 65
Db      21  RRWALLGALLGAAL--ALYVCVRELRRRGSAGR----PEGVTVLLWPEFF--GRPWRA 72

Qy      66  DTCTRYGIARCHLSANRSLASADAVVFHRELQTR-RSHLPLA--QRPRGQPWWASME 122
Db      73  DCRRRNYITGCLLSADRGRYGEARVLFHHRDLALHGRQGLPRGPPRPQRQVWWMNFE 132

```



```

Qy      123 SPSHTHGLSHLRGIFNWWLSYRRDSIFVPYGR-L-EPHWGSPSP---PLPAKSRVAWVVS 178
      |||: || | :||| :|||||:|||| | | || | | |||: |||:|
Db      133 SPSHSPGLRGLAGLFNWTMSYRRDSVFPYGYLYEP---PSPRPFVLPKRSRLVAVWVIS 189

Qy      179 NFQERQLRLARLYRQLAPHLRVDVFGGRANGPLCASCCLVPTAQYRFYLSFENSQHRDYIT 238
      |: | | | ||| | | :||:| | | | : ||: | :|||:|||| | |||
Db      190 NWNEEHARVRYRQLKEHLPIDVYG-ARGMALLEGSVVKTVSAYKFYLAFENSQHTDYIT 248

Qy      239 EKFWRNALVAGTVPVVLGPPRATYEAFFVPADAFVHVDDFGSARELAFLTGM--NESRYQ 296
      || |:| | | ||||| | | | |:|:|:| ||| | | | : | : | :
Db      249 EKLWKNFAAASAVPVVLGPRRANYERFIPADSFHVDDFPSPRLLATYKFLDKNKPYSYR 308

Qy      297 RFFAWDRDLRVLFTDWRERFCAICDRYPHLPRS-QVYEDLEGWFQA 342
      |:| |||: | : | | | :| :| : : |||:
Db      309 RYFAWRNKYEVHVTSFWDEHYKVCCEAVRTAGNQLKTIVQNLAGMFES 355

```

## RESULT 7

```

US-09-092-315-12
; Sequence 12, Application US/09092315
; Patent No. 6399337
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/09/092,315
; CURRENT FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: US 60/048,857
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRT
; ORGANISM: Gallus gallus
US-09-092-315-12

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```

Query Match          41.2%; Score 770.5; DB 2; Length 356;
Best Local Similarity 48.4%; Pred. No. 2.4e-73;
Matches 168; Conservative 45; Mismatches 109; Indels 25; Gaps 12;

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```

Qy      10 RRLRGLGLVAGVALLAALWL----LWLLGSAPRGTPAPQPTITILVWHWPFIDQPPELPS 65
      || | | | | | | | :| | | | | : :|:| | | | | |
Db      21 RRWALLGALLGAAL--ALYVVCVRELRRRGSA---AGRPEGEVTVLLWWEFF--GRPWRPA 73

Qy      66 DTCTRYGIARCHLSANRSLASADAVVFHREHLQTR-RSHLPLA--QRPRGQPVWASME 122
      || | | | | | | | :| | | | | : | | | | | | : |
Db      74 DCRRRYNTIGCLLSADRGRYGEARVLFHHRDLALHGRGQLPRGPPRPQGRVWVMNFE 133

Qy      123 SPSHTHGLSHLRGIFNWWLSYRRDSIFVPYGR-L-EPHWGSPSP---PLPAKSRVAWVVS 178
      |||: || | :||| :|||||:|||| | | || | | |||: |||:|
Db      134 SPSHSPGLRGLAGLFNWTMSYRRDSVFPYGYLYEP---PSPRPFVLPKRSRLVAVWVIS 190

Qy      179 NFQERQLRLARLYRQLAPHLRVDVFGGRANGPLCASCCLVPTAQYRFYLSFENSQHRDYIT 238
      |: | | | ||| | | :||:| | | | : ||: | :|||:|||| | |||
Db      191 NWNEEHARVRYRQLKEHLPIDVYG-ARGMALLEGSVVKTVSAYKFYLAFENSQHTDYIT 249

Qy      239 EKFWRNALVAGTVPVVLGPPRATYEAFFVPADAFVHVDDFGSARELAFLTGM--NESRYQ 296
      || |:| | | ||||| | | | |:|:|:| ||| | | | : | : | :
Db      250 EKLWKNFAAASAVPVVLGPRRANYERFIPADSFHVDDFPSPRLLATYKFLDKNKPYSYR 309

```



Qy 297 RFFAWRDLRLVRLFTDWRERFCAICDRYPHLPRS-QVYEDLEGWFQA 342  
| : | | | : : | : : | : : | : : : : : | | | : :  
Db 310 RYFAWRNKYEYHVTSFWDEHYCKVCEAVRTAGNOLKTIVONLAGWFFES 356

### RESULT 9

```

US-10-120-319A-12
; Sequence 12, Application US/10120319A
; Patent No. 7166449
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; APPLICANT: University of Alberta
; TITLE OF INVENTION: Alpha-1,3 Fucosyltransferase
; FILE REFERENCE: 017398-000420US
; CURRENT APPLICATION NUMBER: US/10/120,319A
; CURRENT FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 09/733,524
; PRIOR FILING DATE: 2000-12-07
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 356
; TYPE: PRF
; ORGANISM: Gallus gallus
; FEATURE:
; OTHER INFORMATION: chicken alpha-1,3-fucosyltransferase fucT 1
; OTHER INFORMATION: (CFucT1)
US-10-120-319A-12

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Query Match 41.2%; Score 770.5; DB 3; Length 356;  
Best Local Similarity 48.4%; Pred. No. 2.4e-73;  
Matches 168; Conservative 45; Mismatches 109; Indels 25; Gaps 12;

Qy	10	RRLRGLGVLAGVALLAALWL---LWLGLSAPRGTPAPQPTITILVVMHWFPTDQPPELPS	65
Db	21	RRWALIGALLGAAL--ALVVCVRRELRRRGA---AGRPEGETVLLVWEFF--GRPWRA	73
Qy	66	DTCTRYGIARCHLSANRSLASADAVVFHRELQTR-RSHLPLA--QPRGQPVWVASME	122
Db	74	DCRRYNIITGCLLSADRGRYGEARAVLFHHRDLALHGRQQLPRGPPPRPRQVVMVMFE	133
Qy	123	SPSHTHGLSHLRGIFNVVLSYRRSDIFVPYGR-L-EPHWGSP--PLPAKSVAAMVVS	178
Db	134	SPSSPGLRGLAGLFWNTWMSYRRSDVFPVGYLYEP---PSPRPFLPKRSRLVAVVIS	190
Qy	179	NFQERQLRLARLYRQLAPHLRVDVFGFRANGPLCASCLVPTVAQYRFYLSFENSQHRDYIT	238
Db	191	NWNEEHARVRYRYQLKEHLPIDVYG-ARGMALLEGSVVKTVSAYKFYLAFENSQHTDYIT	249
Qy	239	EKFWRNALVAGTVPVVLGPPRATYEAFPVADAFVHVDDFGSARELAALFTGM--NESRYQ	296
Db	250	EKLWKNAAASAVPVVLGPPRRANYERFIPADSFIVHDDFPSRLLIATYLFKLDKNKPYSR	309
Qy	297	RFFAWRDRLRVLRLTDWRERFCAICDRYPHLPRS-QVYEDLEGWFQA	342
Db	310	RYFAWRNKYEYEVHVSFWNDEHYCKYCEAVRTAGNOLKTVONLAGWTES	356

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RESULT 10
US-09-733-524A-12
; Sequence 12, Application US/09733524A
; Patent No. 6534298
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 355
; TYPE: PRT
; ORGANISM: Gallus gallus
US-09-733-524A-12

```

Query Match 40.1%; Score 750; DB 2; Length 355;  
Best Local Similarity 47.7%; Pred. No. 3.6e-71;  
Matches 165; Conservative 46; Mismatches 111; Indels 24; Gaps 12;

Qy	10	RRLRGLGVLAGVALLAALWL---LWLGLSAPRGTPAQPTITILVWHWFFTQPPPELPS	65
Db	21	RRWALIGALLGAAL--ALVVCVRELRRRGA---AGRPEGETVLLWWEFF--GRPWRA	73
Qy	66	DTCTRYGIARCHLSANRSLASADAVVFHHRLEQTR-RSHLPLA-QRPGRQPWVWASMES	123
Db	74	DCRRRYNITGCLLSADRGYGEARAVLFHHRDLALHGRQQLPRGPPRPQRQWWMWFES	133
Qy	124	PSHTHGLSHLRGIFNVVLSYRRDSDIFVPYGR-L-EPHWGSP---PLPAKSVAVAWVVS	179
Db	134	PSHSPGLRGLAGLPNWTMSYRRDSDVFVPYGYLYEP---PSRPFPVLPKRSLRVAWVIS	190
Qy	180	FQERQLRARLYRQLAPHLRVDFVGRANGRPLCASCALVPTVAQYRFYLSFENSQHRDYITE	239
Db	191	WNEEHARVRYRQLKEHLPIDVYG-ARGMALLEGSVVKTVSAKFYLAFFNYSQHTDYITK	249
Qy	240	KFWRNALVAGTVPVVGLGPPrATYEAFVPADAFVHVDDFGSARELAALFTGM---NESRYQR	297
Db	250	KLWNKFAFAAFAVPVVLGPPrANRYERFIPADSFIVHDDFGSPRLLATLYKFLDKNRYSYR	309
Qy	298	FFAWNRDLRLRVLFTDWRERFCAICDRYPLHRS-QVYEDLEGWFQA	342
Db	310	YPAWRNKYEVHVTFSEWDEHYCKVCEAVRTAGNOLKTVONLAGWFES	355

RESULT 11  
US-10-189-977A-12  
; Sequence 12, Application US/10189977A  
; Patent No. 6962806  
; GENERAL INFORMATION:

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; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/10/189,977A
; CURRENT FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: US/09/733,524
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 355
; TYPE: PRT
; ORGANISM: Gallus gallus
US-10-189-977A-12
```

```
Query Match          40.1%; Score 750; DB 2; Length 355;
Best Local Similarity 47.7%; Pred. No. 3.6e-71;
Matches 165; Conservative 46; Mismatches 111; Indels 24; Gaps 12;
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```
Qy      10 RRLRGLGVLAGVALLAALWL----LWLLGSAPRGTPAPQPTITILVWHWPFIDQPPPELPS 65
      || || || || || ||: | || | : |:|:| || | | :|
Db      21 RRWALLGALLGAAL--ALYVVCVRELRRRGS---AGRPGEVTVLWWEPPF--GRPWRPA 73

Qy      66 DTCTRYGIARCHLSANRSLASADAVVFHHRELQTR-RSHLPLA-QRPRGPQVWVWASMES 123
      || | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      74 DCRRYNITGCLLSADRGRYGEARAVLFHHRDLALHGRQGLPRGPPRPQRQVWVWVNFES 133

Qy      124 PSHTHGLSHLRGIFNWWVLSYRRSDIFVPYGR-L-EPHWGSPSP---PLPAKSRVAWVVSIN 179
      || | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      134 PSHSPGLRGLAGLFNWTMSYRRSDVFPYGYLYEP---PSPRFVLPKRSRLVAVVISIN 190

Qy      180 FQERQLRLRLYRQLAPHLRVDVFGRRNGRPLCASCVLPTVAQYRFYLSFENSQHRDYITE 239
      : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      191 WNEEHARVRYRQLKEHLPIDVYG-ARGMALLEGSVVKTVSAYKFYLAFFYNSQHTDYITK 249

Qy      240 KFWRNALVAGTVPVVLGPPTATYEAFFPADAFVHVHDDFGSARELAFLTGM--NESRYQR 297
      | | : | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      250 KLWKNAFAASAVPVVLGPRRANYERFIPADSFIVHDDFSPRLATYLFKFLDKNKPYSYR 309

Qy      298 FFAWRDLRLVRLFTDWRERFCAICDRYPHLPRLS-QVYEDLEGWFOA 342
      : | | : | | : | | : | | : | | : | | : | | : | | : | | : | |
Db      310 YPAWRNKYEYHVTSFVDEHYCKVCEAVRTAGNQLKTVQNLGAWFES 355
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## RESULT 12

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US-09-092-315-11
; Sequence 11, Application US/09092315
; Patent No. 6399337
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: ALPHA-1, 3-FUCOSYLTRANSFERASE
; FILE REFERENCE: 07254/049001
; CURRENT APPLICATION NUMBER: US/09/092,315
```

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; CURRENT FILING DATE: 1998-06-05
; EARLIER APPLICATION NUMBER: US 60/048,857
; EARLIER FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-092-315-11
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Query Match          39.8%; Score 743; DB 2; Length 433;
Best Local Similarity 42.1%; Pred. No. 2.7e-70;
Matches 169; Conservative 46; Mismatches 124; Indels 62; Gaps 11;
```

```
Qy      1 MNNAGHGPTRRRLGLVLAGVALLAALWLL-----W-LLGSAPRGTPAPQPTITIL 50
      | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      34 METPGYRRRTRCGGWGLPRSVSSLAAGVGLLCTALTTFICWGQLPPLPWASAPQRLVGVL 93

Qy      51 VWHWPFDTQP--PELPSDICTRYGIARCHLSANRSLASADAVVFHRELQTRRSHLP-- 106
      :| || :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      94 LWWEPRFRGGGYPKSPDCSLRFNISGCRLLTDRAAYGEAQAVLFHHRDLVKELHDWPPP 153

Qy      107 -----LAQRPRGQPWWWASMESPSHTHGLSHL- 133
      : || || ||| : ||||| || |
Db      154 WGARERTDKALVLRVFDDEGAVILTGKALETVGSRPPGQRWVMNMFESPSHTPGLRGLA 213

Qy      134 RGIFNWVLSYRRSDIFVPYQ---RLEPHWGPS---PPLPAKSRVAWVSVNFQERQLR 186
      : ||| |||| |||:|||| | :| || | | | : ||||| : || |
Db      214 KDLFNWTLSYRTSDVFPVYGFLYSRSDPTEQPSGLGPQLARKRGLVAVVSVNWNHQAR 273

Qy      187 ARLYRQLAPHLRVDVFRAN--GRPLCASCALVPTVAQYRFYLSFENSQHRDYITEKFWRNA 245
      | || :| :| |||| ||| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      274 VRYHQQLSRHVSVDVFGRTGPGRFVPAIGLLHTVARYKFYLAFENSRHVDYITEKLWRNA 333

Qy      246 LVAGTVPVVLGPPRATYEAFPADAFVHVDVDFGSAARELAALFTGM--NESRYQRFFAWRD 303
      :| || |||| || || || ||| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      334 FLAGAVPVVLGPDRANYERFVPRGAFIHVDVDFPNAASLAAYLLFLDRNVAVYRRYFRWRR 393

Qy      304 RLRVRLFTDWRERFCAICDRYP---HLPRSQVYEDLEGWFQ 341
      | :| :| :| :| | :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :| :|
Db      394 SFAVHITSFWDEQWCRTCAVQTSQDQPKS--IHNLADWFQ 432
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## RESULT 13

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US-09-733-524A-11
; Sequence 11, Application US/09733524A
; Patent No. 6534298
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/09/733,524A
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
```

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; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-733-524A-11
```

```
Query Match          39.8%; Score 743; DB 2; Length 433;
Best Local Similarity 42.1%; Pred. No. 2.7e-70;
Matches 169; Conservative 46; Mismatches 124; Indels 62; Gaps 11;
```

```
Qy      1  MNNAGHGPRTRRLRGLGVLAGVALLAALLW-----W-LLGSAPRGTPAPQPTITIL 50
      |  | :  |  | | :  | : ||| : |  |  |  | : ||| : : |
Db      34  METPGYRRTRCGWGLPRSVSSLAAVGLLCTALTTFICWGQLPPLPWASAPQRLVGVL 93

Qy      51  VWHWPFTDQP---PELPSDCTTRYGIARCHLSANRSLASADAVVFHHRQLQRRSHLP-- 106
      : | | :  | : | | : | : | : | : | : | | : | |
Db      94  LWMEFPRGRGGYKSPDDCSLRFNISGCRLLTDRAAYGEAQAVLFHHRDLVKELHDWPPP 153

Qy     107  -----LAQRPRGQPWVWASMESPSHTHGLSHL- 133
      : | | | | | : | | | | |
Db     154  WGARERTKALVLRVDDQEGAVILTGKALETVGSRPPQQRVWMNFESPSHTPLGLGLA 213

Qy     134  RGIFNWVLSYRRSDSDFVPYG---RLEPHWGPS---PPLPAKSRVAWVVSFNQERQLR 186
      : : || | | | | | | | | | | | | | | | | | | | | |
Db     214  KDLFNWTLISYRTSDSDFVPYGFYLSRSDPTEQPSGLGPQLARKRGLVANVVSNNWEHQAR 273

Qy     187  ARLYRQLAPHLRVDVFGGRAN-GRPLCASCLVPTVAQYRFYLSFENSQHRDYITEKFWRNA 245
      | | | : | | | | | | | | | | | | | | | | | | | | |
Db     274  VRYHHQLSRHVSVDVFGRTGPGRPVPAIGLLHTVARYKFYLAFENSRHVDYITEKLWRNA 333

Qy     246  LVAGTVPVVLGPPrATYEAFVPADAFVHVDDFGSARELAALFTGM---NESRYQRFFAWRD 303
      : | | | | | | | | | | | | | | | | | | | | | | |
Db     334  FLAGAVPVVLGPDRANYERFVPRGAFIHVDDFPNAASLAAYLLFLDRNVAVVRRYFRWR 393

Qy     304  RLRVRLFTDWRERFCAICDRYP---HLPRSQVYEDLEGWFQ 341
      | : : | | : : | | | : | : | | |
Db     394  SFAVHTISFWEQWCRTCAVQTSGDQPKS--IHNLDWFWQ 432
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## RESULT 14

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US-10-189-977A-11
; Sequence 11, Application US/10189977A
; Patent No. 6962806
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; TITLE OF INVENTION: NUCLEIC ACIDS ENCODING ALPHA-1,3
; TITLE OF INVENTION: FUCOSYLTRANSFERASES AND EXPRESSION SYSTEMS FOR MAKING AND
; TITLE OF INVENTION: EXPRESSING THEM (amended)
; FILE REFERENCE: 07254-049002
; CURRENT APPLICATION NUMBER: US/10/189,977A
; CURRENT FILING DATE: 2002-03-07
; PRIOR APPLICATION NUMBER: US/09/733,524
; PRIOR FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; NUMBER OF SEQ ID NOS: 27
```

```
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-189-977A-11
```

```
Query Match          39.8%; Score 743; DB 2; Length 433;
Best Local Similarity 42.1%; Pred. No. 2.7e-70;
Matches 169; Conservative 46; Mismatches 124; Indels 62; Gaps 11;
```

```
Qy      1 MNNAGHGPTRRRLRGLGVLAGVALLAALWLL-----W-LLGSAPRGTAPQPTITIL 50
      | |: | |: |: |: |: | | | | | | |: |: |: |: |
Db      34 METPGYRRRTRCGGWGLPRSVSSLAAGVLLCTALTTFICWGQLPPLPWASAPQRLVGVL 93

Qy      51 VHWHPFTDQP--PELPSDTCTRYGIARCHLSANRSLASADAVVFHHRQLTRRSHLP-- 106
      |: | |: | |: | |: | |: | |: | |: |: |: | |
Db      94 LWWEFPRGRGGYKPSPPDCSLRFNISGCRLLTDRAAYGEAQAVLFHHRDLVKELHDWPPP 153

Qy      107 -----LAQRPRGPQWVWASMESPSHTHGLSHL- 133
      : | | | | | | | | | | | | | | | |
Db      154 WGARERTDKALVLRVFDQEGAVILTGKALETVGSRPPGQRWVMNFESPSHTPGLRGLA 213

Qy      134 RGIFNWVLSYRRSDIFVPYG---RLEPHWGPS---PPLPAKSRVAWVVSNFQERQLR 186
      : | | | | | | | | | | | | | | | | | | | | | |
Db      214 KDLFNWTLSTYRTSDSVFVPYGLYSRSDPTEQPSGLGQLARKGLVAVWVSNWNEHQAR 273

Qy      187 ARLYRQLAPHLRVDVFGGRAN-GRPLCASCVPTVAQYRFYLSFENSQHRDYITEKFWRNA 245
      | | | |: | | | | | | | | | | | | | | | | | |
Db      274 VRYHQLSRHSVSDVFGRTGPRPVAIGLLHTVARYKFYLAFENSRHVDYITEKLWRNA 333

Qy      246 LVAGTVPVVLGPPEATYEAFVPADAFVHVHDDFGSARELAALFTGM--NESRYQRFFAWRD 303
      : | | | | | | | | | | | | | | | | | | | | | |
Db      334 FLAGAVPVVLGPDRANYERFVPRGAFIHVDDFPNAASLAAYLLFLDRNVAVYRRYFWRWR 393

Qy      304 RLRVRLFTDWRERFCAICDRYP---HLPRSQVYEDLEGWFQ 341
      | : : | |: | | | | | | | | | | | | | |
Db      394 SFAVHITSFWEQWCRTICQAVQTSGDQPKS--IHNLADWFQ 432
```

```
RESULT 15
US-10-392-098A-11
; Sequence 11, Application US/10392098A
; Patent No. 7029891
; GENERAL INFORMATION:
; APPLICANT: Taylor, Diane E.
; APPLICANT: Ge, Zhongming
; APPLICANT: University of Alberta
; TITLE OF INVENTION: Alpha-1,3 Fucosyltransferase
; FILE REFERENCE: 017398-000420US
; CURRENT APPLICATION NUMBER: US/10/392,098A
; CURRENT FILING DATE: 2003-03-17
; PRIOR APPLICATION NUMBER: US/10/120,319
; PRIOR FILING DATE: 2002-04-09
; PRIOR APPLICATION NUMBER: US 60/048,857
; PRIOR FILING DATE: 1997-06-06
; PRIOR APPLICATION NUMBER: US 09/092,315
; PRIOR FILING DATE: 1998-06-05
; PRIOR APPLICATION NUMBER: US 09/733,524
; PRIOR FILING DATE: 2000-12-07
; NUMBER OF SEQ ID NOS: 30
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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 11
; LENGTH: 433
; TYPE: PRT
; ORGANISM: Mus musculus
; FEATURE:
; OTHER INFORMATION: mouse alpha-1,3-fucosyltransferase fucT IV
; OTHER INFORMATION: (MFucT4)
US-10-392-098A-11
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```
Query Match          39.8%; Score 743; DB 3; Length 433;
Best Local Similarity 42.1%; Pred. No. 2.7e-70;
Matches 169; Conservative 46; Mismatches 124; Indels 62; Gaps 11;
```

```
Qy      1 MNNAGHGPTRRRLRGLGVLAGVALLAALWLL-----W-LLGSAPRGTPAPQPTITIL 50
      | | : | | | : | : | | : | | | | | : | | : |
Db      34 METPGYRRRTRCGGWGLPRSVSSLAAVGLLCTALTTFICWGQLPPLPWASAPQRLVGVL 93

Qy      51 VWHWPFDTQP--PELPSDCTTRYGIARCHLSANRSLASADAVVFHHRQLTRRSHLP-- 106
      : | | : | : | | | : | : | | : | | : | | | | |
Db      94 LWMEFPFRGRGGYPKSPDCSLRFNISGCRLLTDRAAYGEAQAVLFHHRDLVKELHDWPPP 153

Qy      107 -----LAQRPRGQPVVWASMESPSHTHGLSHL- 133
      : | | | | | : | | | | | |
Db      154 WGARERTDKALVLRVDDQEGAVTLTGKALETVGSRPPGQRVWVMNFESPSHTPGLRGLA 213

Qy      134 RGIFNWVLSYRRSDSDFVPYG---RLEPHWGPS---PPLPAKSRAAWVSNFQERQLR 186
      : | | | | | | | : | | | | | | | : | | | | | | |
Db      214 KDLFNWTLSYRSDSDVFVPGFLYSRSDPTEQPSGLGPQLARKGLVAVVSNWNEHQAR 273

Qy      187 ARLYRQLAPHLRVDVFGGRAN-GRPLCASCLVPTVAQYRFYLSFENSQHRDYITEKFWRNA 245
      | | | : | : | | | | | | : | : | : | : | : | : | | | | |
Db      274 VRYHHQLSRHVSVDVFGRTGPGRPVPAIGLLHTVARYKFYLAFENSRRHVDYITEKLWRNA 333

Qy      246 LVAGTVPVVVLGPPEATYEAFVPADAFVHVDFFGSARELAFAFLTGM--NESRYQRFFAWRD 303
      : | | | | | | | | | | | | | | : | | | : | : | : | |
Db      334 FLAGAVPVVLPDGRANYERFVPRGAFIHVDFFPNAASLAAYLLFLDRNVAVYRRYFRWR 393

Qy      304 RLRVRLFTDWRERFCAICDRYP---HLPRSQVYEDLEGWFQ 341
      | : : | | : | | | | : | : | : | |
Db      394 SFAVHITSFWDQWCRTCAQVQTSGDQPKS--IHNLDWFWQ 432
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